

Future Flight Design			
2008 Science			
Grade and Course Level Expectations			
Missouri Science			
Grade 5			
Activity/Lesson	State	Standards	
Air Transportation Problem	MO	SCI.5.8.3.A.b	Work with a group to solve a problem, giving due credit to the ideas and contributions of each group member
Future Flight Design			
2008 Science			
Grade and Course Level Expectations			
Missouri Science			
Grade 6			
Activity/Lesson	State	Standards	
Air Transportation Problem	MO	SCI.6.7.1.A.e	Recognize different kinds of questions suggest different kinds of scientific investigations (e.g., some involve observing and describing objects, organisms, or events; some involve collecting specimens; some involve experiments; some involve making observations in nature; some involve discovery of new objects and phenomena; some involve making models)
Aircraft Design Problem	MO	SCI.6.8.1.C.a	Describe how technological solutions to problems (e.g., storm water runoff, fiber optics, windmills, efficient car design, electronic trains without conductors, sonar, robotics, Hubble telescope) can have both benefits and drawbacks (e.g., design constraints, unintended consequences, risks)
Future Flight Design			
2008 Science			
Grade and Course Level Expectations			
Missouri Science			
Grade 7			
Activity/Lesson	State	Standards	
Air Transportation Problem	MO	SCI.7.7.1.A.e	Recognize that different kinds of questions suggest different kinds of scientific investigations (e.g., some involve observing and describing objects organisms, or events; some involve collecting specimens; some involve experiments; some involve making observations in nature; some involve discovery of new objects and phenomena; some involve making models)

Air Transportation Problem	MO	SCI.7.7.1.A.f	Acknowledge there is no fixed procedure called “the scientific method”, but some investigations involve systematic observations, carefully collected and relevant evidence, logical reasoning, and imagination in developing hypotheses and other explanations
Aircraft Design Problem	MO	SCI.7.2.2.A.a	Identify and describe the types of forces acting on an object in motion, at rest, floating/sinking (i.e., type of force, direction, amount of force in Newtons)
Aircraft Design Problem	MO	SCI.7.2.2.D.a	Compare the effects of balanced and unbalanced forces (including magnetic, gravity, friction, push or pull) on an object’s motion
Aircraft Design Problem	MO	SCI.7.8.1.C.a	Describe how technological solutions to problems (e.g., storm water runoff, fiber optics, windmills, efficient car design, electronic trains without conductors, sonar, robotics, Hubble telescope) can have both benefits and drawbacks (e.g., design constraints, unintended consequences, risks)
<b>Future Flight Design</b>			
<b>2008 Science</b>			
<b>Grade and Course Level Expectations</b>			
<b>Missouri Science</b>			
<b>Grade 8</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
Air Transportation Problem	MO	SCI.8.7.1.A.e	Recognize that different kinds of questions suggest different kinds of scientific investigations (e.g., some involve observing and describing objects organisms, or events; some involve collecting specimens; some involve experiments; some involve making observations in nature; some involve discovery of new objects and phenomena; some involve making models)
Air Transportation Problem	MO	SCI.8.7.1.A.f	Acknowledge there is no fixed procedure called “the scientific method”, but some investigations involve systematic observations, carefully collected and relevant evidence, logical reasoning, and imagination in developing hypotheses and other explanations

Aircraft Design Problem	MO	SCI.8.8.1.C.a	Describe how technological solutions to problems (e.g., storm water runoff, fiber optics, windmills, efficient car design, electronic trains without conductors, sonar, robotics, Hubble telescope) can have both benefits and drawbacks (e.g., design constraints, unintended consequences, risks)
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